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## Geotec™ Polypropylene Monofilament



### [Description]

With the rapid development of domestic economy and urban construction and enlarged scale of industrial and civil construction, the requirement to the technical disposal of building surfaces is much higher than before. On the basis of improving body's engineering design and constructing quality, improving the surface quality, like roof of building and wall and floor, becomes a crucial task to the construction field. So on the basis of successfully developing polypropylene fiber-mesh for concrete and polyester fiber for bitumen, for bitumen and in view of some technical problems existing in constructing field, our company sums up experiences and develops cracking-resistance reinforced fiber for cement paint (using in plastering). This fiber can improve quality of building's wall and floor, and supply a new technical measure to reduce the surface crack, so it has a good economic results.

### [Technical Data]

Raw Material	Polypropylene	Crack Elongation	15-20%
Fiber Type	monofilament	Density	0.91g/cm <sup>2</sup>
Fiber Dia.	0.02+/-0.005mm	Melting Point	160-170C
Tensile Strength	7.67cN/dtex	Acid & Alkali Resistance	Strong

### [Reinforced Functions to Concrete Mortar]

1. Resist to shrink & crack;
2. Increase impact resistance and peeling resistance;
3. Increase friction resistance;
4. Increase seepage resistance;
5. Increase freezing & thawing resistance;
6. Improve tendons protection
7. Prevent mortar split and crackle expansion;
8. Replace steel net (using in plastering).

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### [The Feature of Polypropylene Monofilament]

1. No agglomeration and easily spread around in mortar or concrete. Guarantee the property of crack resistance effectively;
2. Apply conveniently. No need to change the proportion of mortar, and just put the fibers into the mortar mixture and stir for a moment after adding water;
3. Has fine economic property. The equivalent dia. of polypropylene monofilament is only 0.02mm, so the ratio of dia. And surface is high and on the basis of crack resistance, it can reduce the amount (0.6kg/m<sup>3</sup>) and cut down the cost effectively;
4. Be better to plaster. Because a great number of thin fibers spread into mortar evenly, so the plastering is much easier and this can improve the binding strength between surface and base;
5. The fiber has stable chemical property, strong acid & alkali resistance, and can be used in any engineering projects.

### [Suitable Engineering for Polypropylene Monofilament]

1. Be suitable for the waterproof layer, floor, inner & outer wall of industrial and civil construction;
2. Increase cracking resistance on the surface of industrial workshop, warehouse and parking lot;
3. Increase cracking & seepage resistance of the ground in natatorium, swimming pool, pond and ditch;
4. Be suitable for any mortar projects and fine aggregate concrete projects.

### [Application Instruction]

1. **Compound Amount.** To resist the common cracks on surfaces, 0.6kg/m<sup>3</sup> fibers to cement paint are enough, and for reinforced application 0.9-.8kg/m<sup>3</sup> are enough.
2. **Stirring requirement.** The proportion of cement, sand and aggregate is no need to be changed. Put cement, aggregate, additive and fiber together, then stir after adding enough water (Do not stir without water!) and time for stirring can be prolonged for 2~3 minutes in order to make the compound mix completely.
3. **Package.** There are two specifications: 0.6kg per bag and 0.9kg per bag.